## Pharmacy Sustainability Network



## Join the Pharmacy Sustainability Network

As experts in medicines, pharmacy teams have a crucial role to play in meeting healthcare systems' net zero targets and addressing the environmental impact of pharmaceuticals.

Join our recently launched Pharmacy SusNet to connect with others in the profession and share knowledge and experience related to sustainable pharmacy practice and education.

Scan the QR code or visit

networks.sustainablehealthcare.org.uk/pharmacy-sustainability-network





sustainablehealthcare.org.uk



@sushealthcare





# Climate change as a risk to respiratory health – the 'greener' agenda

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#### Outline

- Impact of climate change and air pollution on health particularly respiratory health
- National respiratory drivers/docs and their implications for improving Resp outcomes in the context of the Long Term Plan
- Principles of Shared Decision Making (SDM) including NICE guideline (published June 2021)
- Recognize the role pharmacy teams play to support better patient & planetary health, understanding the local and national landscape for action

Some issues with (delivering) resp/sustainable pt care and why?

On the ground 'real world' issues

- Perspective and priorities
- Time
- Resource
- Pt/staff understanding
- Supporting materials
- Other competing priorities
- Something else?



## Respiratory issues

- SABA overreliance
- Insufficient ICS & maintenance use
- Inappropriate disease control → exacerbations
- Non-adherence
- Poor outcomes
- Some have severe asthma  $\rightarrow$  need to access services/meds
- Smoking
- Breathlessness
- Social determinants of health housing, obesity, air quality etc.
- Polypharmacy
- A tired workforce variation in skills
- GP visit = 66 CO2e (kg), a day of acute care = 125 CO2e(kg)

## Global warming & climate change – no plan(et) B

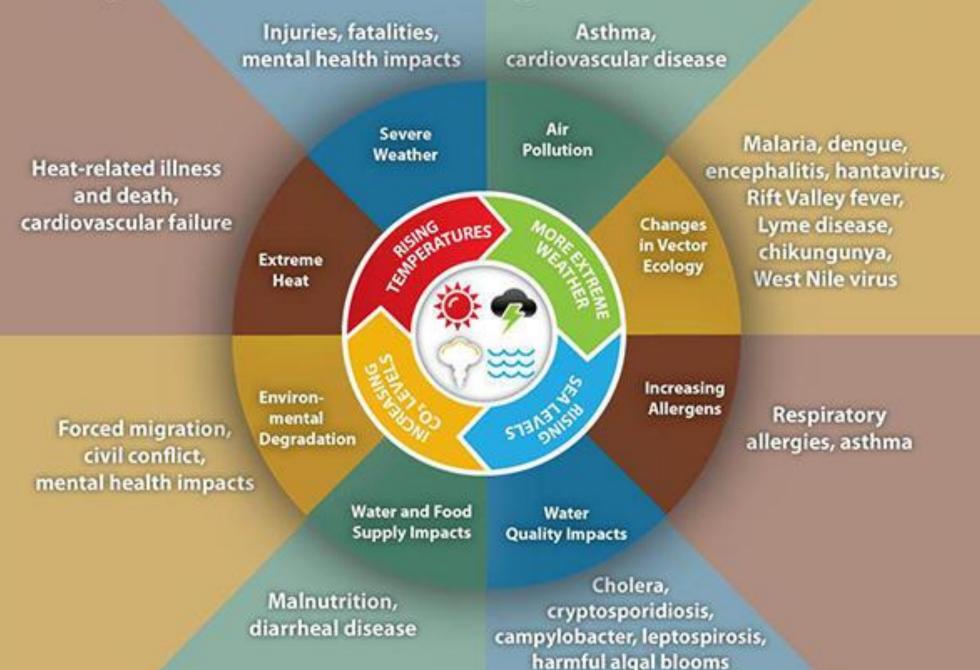




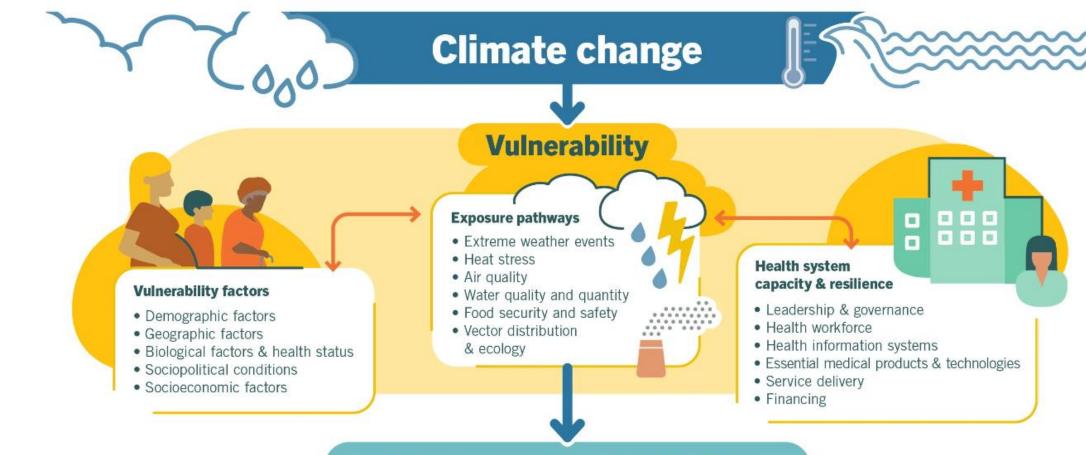




#### Impact of Climate Change on Human Health



Ref www.AAFA.org



#### **Climate-sensitive health risks**

#### Health outcomes



Injury and mortality from extreme weather events



Heatrelated illness



Respiratory W illness dis



Water-borne diseases and other water-related health impacts



Vectorborne diseases



diseases

Malnutrition Noncommunicable and food- diseases (NCDs) borne



ole Mental and s) psychosocial health

## Health systems & facilities outcomes



Impacts on healthcare facilities



cts Effects hcare on health ies systems

WHO climate sensitive health risks

#### Health outcome

Zoonoses

## Countdown report Oct'22

#### THE LANCET

t; 2021 www.the

The 2021 report of the Lancet Countdown on health and climate change



"Leaders of the world have an unprecedented opportunity to deliver a future of improved health, reduced inequity, and economic and environmental sustainability. However, this will only be possible if the world acts together to ensure that no person is left behind."



A Review by The Lancet

#### #HealthyClimate Prescription

An urgent call for climate action from the health community #ClimatePrescription

#### THE LANCET

The 2022 report of the Lancet Countdown on health and climate change



"Countries and companies continue to make choices that threaten the health and survival of people in every part of the world...At this critical juncture, an immediate, health-centred response can still secure a future in which world populations can not only survive, but thrive."



- Fossil fuels
- Deepening inequities
- COP26 & IPCC reports
- Future impact
- BTS supported recent ERS call to limit global warming to 1.5C
- Climate crisis is a health crisis
- Countdown report Nov
   '23

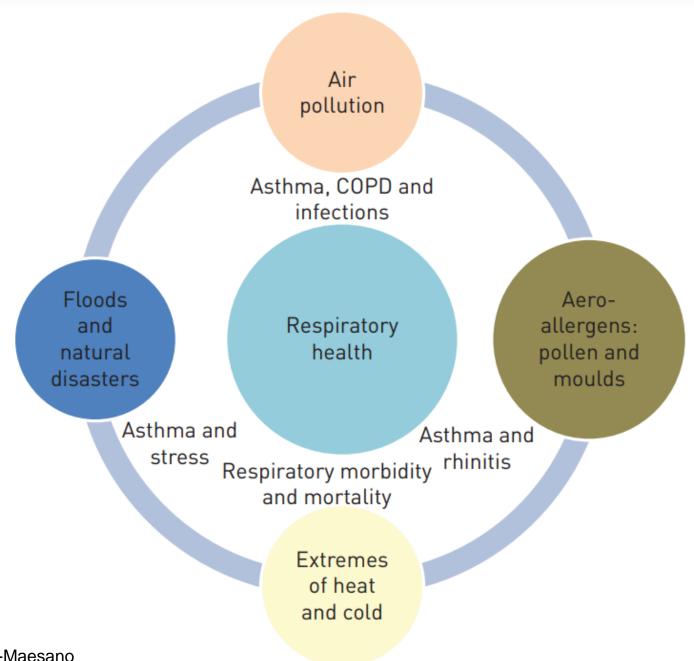
# SUSTAINABLE GALS



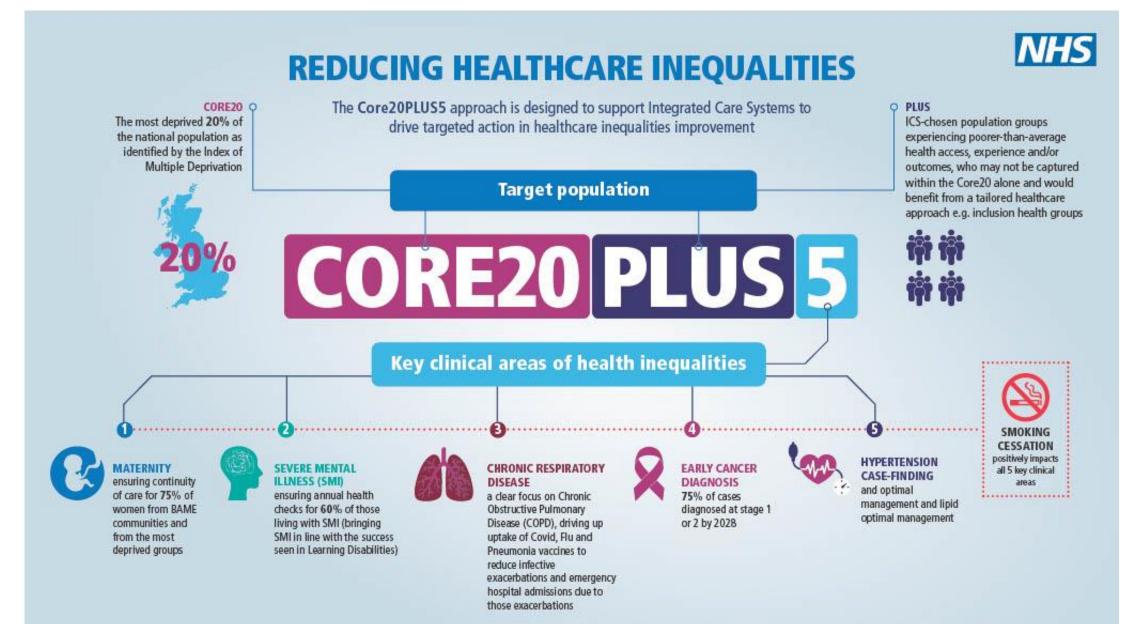
Emergency preparedness, resilience, infrastructure

# Climate impact to resp health

- COPD smoking/biomass fuel exposure
- Asthma & allergy pollen, allergen, mould
- Forest fire smoke
- Ozone & particulate matter
- Upper resp tract infections



## Health inequalities



### Climate crisis = health crisis...sustainability



- Holistic care (whole pt/system, cross cutting, MECC)
- High quality = more sustainable
- Marathon AND sprint, parallel streams
- Care fundamentals diagnosis/coding, smoking, vaccination, pulm rehab, non-drug, social Pxing
- LTP → life pre/start to, best, end of
- Health inequalities, COVID, poor, social deprivation, living conditions, air quality geography, disabilities, CYP, BAME, life expectancy, digital exclusion, data
- Those most affected underrepresented = widening gaps

#### Equality



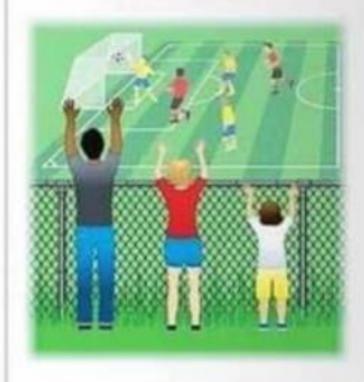
The assumption is that everyone benefits from the same supports. This is equal treatment.

#### Equity



Everyone gets the supports they need (this is the concept of "affirmative action"), thus producing equity.

#### Justice



All 3 can see the game
without supports or
accommodations because
the cause(s) of the
inequity was addressed.
The systemic barrier has
been removed.

- Health and Care bill 2022
- Climate emergency declarations/Climate change Act
- Carbon net zero report Oct '20
- NHS Long term plan health inequalities
- WHO air quality standards
- National report on asthma deaths 2014/APPG'20
- ALUK figures poor asthma outcomes
- The Marmot review 10 years on
- Incentive schemes & Meds Optimisation
   NHSE



Improving asthma outcomes in the







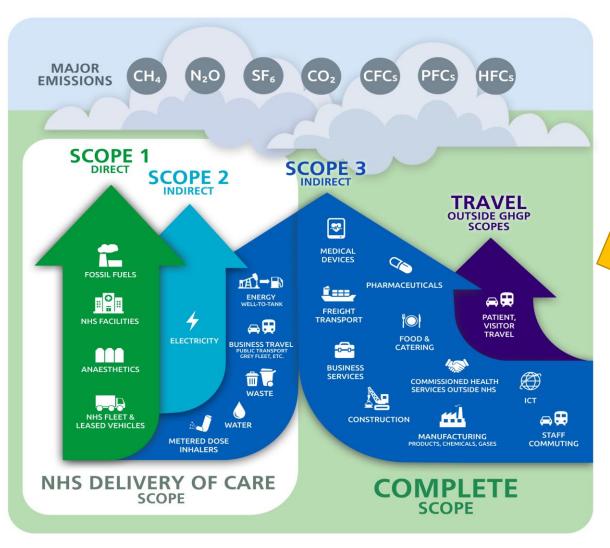
Delivering a 'Net Zero' National Health Service



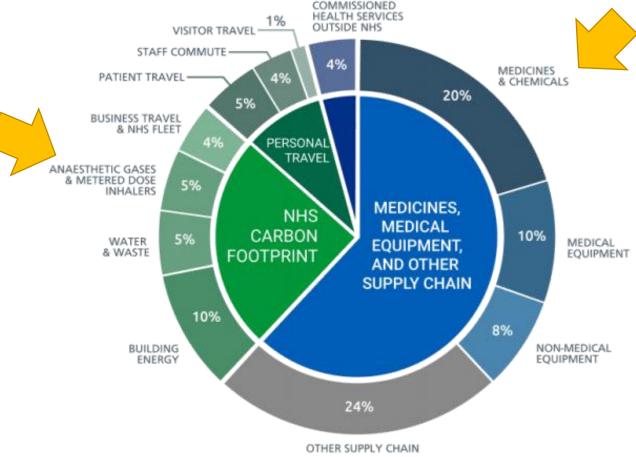
Why asthma still kills
The National Review
of Asthma Deaths (NRAD)

Confidential Enquiry report May 2014

## The NHS Net Zero targets



- Net zero carbon by **2040** for the emissions we control directly (the NHS Carbon Footprint), with an ambition to reach an **80% reduction**, compared with a 1990 baseline, **by 2028 to 2032**.
- Net zero for all emissions, including those embedded in the supply chain (the NHS Carbon Footprint Plus) by 2045, with an ambition for an 80% reduction, compared with a 1990 baseline, by 2036 to 2039.

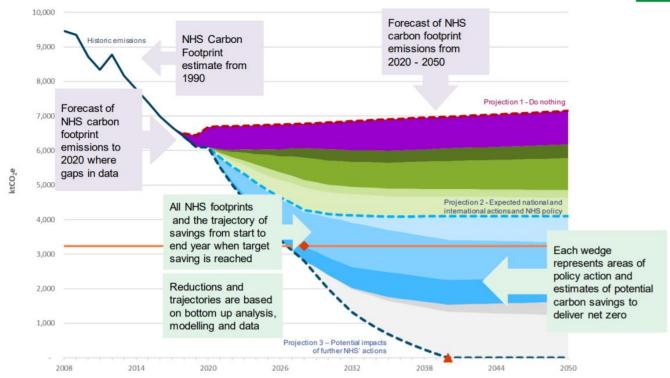


## NHS Early steps to decarbonise

#### NHS modelling of the impact of NHS and others action

NHS

- Our care
- Heating & lighting
- Medicine & supply chain
- Transport and travel
- Innovation
- Hospitals
- Adaptation efforts
- Values and governance



10 | For a Greener NHS

 International Pharmaceutical Aerosol Consortium (IPAC) is coordinating a consortium of large pharmaceutical companies to develop a programme encouraging return of inhalers to pharmacies for green disposal.

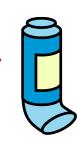
## Carbon impact medicines...

- Medicines account for 25% of emissions within the NHS.
- A small number of medicines account for a large portion of the emissions, and there is already a significant focus on two such groups – anaesthetic gases (2% of emissions) and inhalers (3% of emissions)



- increasing frequency of the greener disposal of used inhalers
- supporting the innovation in & use of lower carbon propellants & alternatives





## Greenhouse gases (GHGs) trap heat

Ref IPCC https://www.ipcc.ch/site/assets/uploads/2018/02/ar4-wg1-chapter2-1.pdf#table-2-14

#### **Long lived GHGs**

- Water vapour (oxidation of CH4)
- Methane CH4
- CO2 burning fossil fuels
- Nitrous Oxide (N2O)
- Halocarbons Fluorine, bromine, chlorine gases inc Sulphur hexafluoride

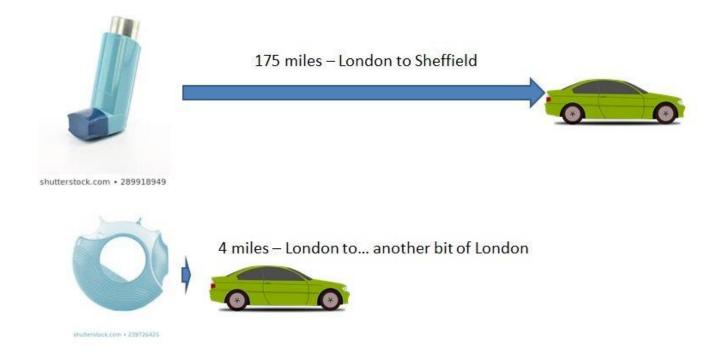
#### **Duration in atmosphere**

- Short lived (days)
- 12 years
- 20-200 yrs
- 114 years

• <1yr >1000!

#### In context

- Ventolin pMDIs (two puffs): 500g CO<sub>2</sub>e per dose
- DPIs (1 dose): 20g CO<sub>2</sub>e per dose (NICE patient decision aid)



• If every inhaler-user in the UK returned all their inhalers for one year, this could save 512,330 tonnes of  $CO_2e$  – the same as a VW Golf car being driven around the world 88,606 times

## Previous incentive scheme – NOT in 23/24!!

- Primary Care Network (PCN) Directly Enhanced Service (DES) specification for structured medication reviews (SMR) & meds optimisation requirement of PCNs to "actively work with their CCG to optimise the quality of prescribing of MDIs, where a low carbon alternative may be appropriate"
- NHSEI impact investment fund (IIF): 2021/22 and 2022/23 four indicators (RESP-01, RESP-02, ES-01, ES-02) to support (i) improved respiratory care and health outcomes for people with an asthma diagnosis
- (ii) reduce avoidable carbon emissions through encouraging choice of lower carbon inhaler alternatives, where clinically appropriate and to improve respiratory care and health outcomes for people with asthma
- CVD, personalized care & other updated indicators

## National guidance

- British Thoracic Society (BTS)/SIGN 2019 asthma guidelines:
  - Prescribers, pharmacists and patients should be aware that there are significant differences in the global warming potential (GWP) of different pMDIs
  - Inhalers with low GWP should be used when they are likely to be equally effective
  - Where there is no alternative to pMDIs, lower volume HFA-134a inhalers should be used in preference to large volume or HFA-227ea inhalers
  - NICE guidance/qual standards & SDM Jun 21
  - RPS CPCS community pharmacist consultation scheme

#### PrescQIPP - Partnership with NHSEI

- Resources published on PrescQIPP website bulletin 295 & briefing:
- ✓ Inhaler carbon impact data
- ✓ Audit tools
- ✓ GP system searches
- ✓ Advice for HCP doc
- ✓Inh technique, pt leaflets
- ✓ Leaflets, posters & logos e.g. returning inhalers

### Further strategic levers/tools

- Joint national asthma guideline due in '24
- Inclusive Pharmacy practice prog
- NHSE CORE20+5
- Population health management, data insights & intelligence

SHAPE/FINGERTIPS tool

- PrescQIPP pseudo anonymised data
- NHSBSA dashboards, SPECTRA prednisolone
- DMS CQUIN, Structured med reviews
- Integrated care
- AACollaborative asthma/biologics pathway



to be to a contract for executing		
Inhaler carbon footprir (Figures in this briefing represent avera- latest 3 months data; Nov21-Jan2		
d Chart to show achievement across practices % pMIX to DRY/MIX  TO DRY/MIX TO DRY/MIX TO THE TO THE TOTAL TOTAL TO THE TOTAL TOTAL TO THE TOTAL TOTAL TOTAL TO THE TOTAL TOTAL TOTAL TOTAL TO THE TOTAL		
48.7% 48.7%		
1		

#### LOOK



The NHS has committed to reducing the carbon impact of inhalers used in the treatment of respiratory conditions. Dry powder inhalers (DPIs)/Soft Mist Inhalers (SMIs) do not contain HFCs and so have a lower carbon footprint than pressurised metered dose inhalers (pMDIs) and breath actuated inhalers (BAIs).

1. Select ICS:
2. Select Commissioner:
3. Select PCN
(or leave to keep all practices):

All

4. Select Practice (free text search on code or name):

Across England, Wales & Scotland, the average % pMDI to DPI/SMI 55.96%. The 21/22 PCN DES lower threshold is 53% and upper threshold is 44%.

#### **REVIEW**



- Identify and audit patients who are suitable for a switch to a lower carbon footprint inhaler alternative.
- Select patients for review and send invitation letters.
- Consider whether inhaler treatment needs stepping down, stepping up or is to remain the same, to get or maintain good control of asthma or COPD before considering a switch to a lower carbon footprint inhaler alternative.
- Consider lower carbon footprint inhaler switches which have cost savings or are cost neutral before those which have a cost pressure. Inhaler switches should be tailored to the individual.

#### DO

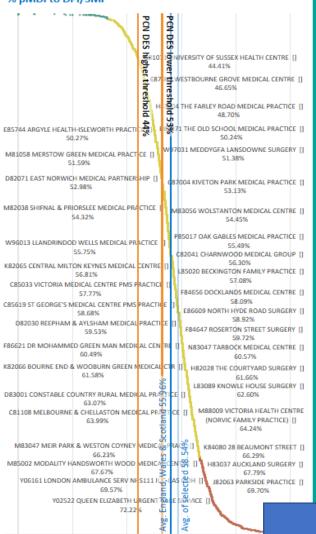


- Use the NICE decision aid on inhalers for asthma <a href="https://bit.ly/2X7gQVI">https://bit.ly/2X7gQVI</a> with patients to help them consider how important a low carbon alternative is to them. Check and instruct patients on inhaler technique.
- Switch to combination inhalers if clinically appropriate.
- Encourage patients to reduce inhaler waste by not over-ordering their inhalers, looking after their inhalers, and returning used or unwanted inhalers to their pharmacy for environmentally safe disposal (except spacers currently).

#### Inhaler carbon footprint

(Figures in this briefing represent average latest 3 months data; Nov21-Jan22)

#### Chart to show achievement across practices % pMDI to DPI/SMI



REF PrescQIPP



40.00%

0.00%

20.00%

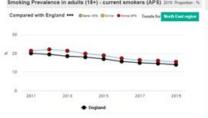
60.00%

80.00%

#### Fingertips visualisations



Overview Comparing areas Trends Maps Comparing indicators Box plots Inequalities





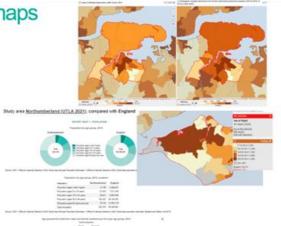
PHE Population Health Intelligence Tools

#### Local Health maps and reports

Maps indicators on community, risk factors, disease, causes of death and life expectancy

Maps can compare areas and indicators

Reports - community and indicators

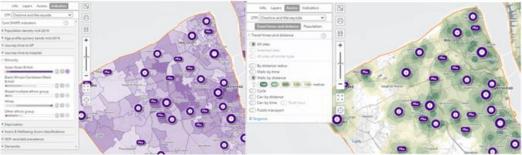


#### PHE data intelligence tools

#### SHAPE maps



- · Plots GPs, pharmacies, hospitals and other community sites
- · Travel time analysis to sites
- Mapping demographics of community (deprivation, ethnicity)
- Mapping health indicators



PHE Population Health Intelligence Tools

#### Net zero – linking policy to practice

- People power, perceptions
- Opportunity asthma control, SABA overuse, >3x wk
   +red flags
- Demystify, upskill, enable, streamline
- Risks, consequences

- ICS formation flux
- NHS Workstreams inc models of care (pathways), virtual wards, care closer to home, estates, meds etc

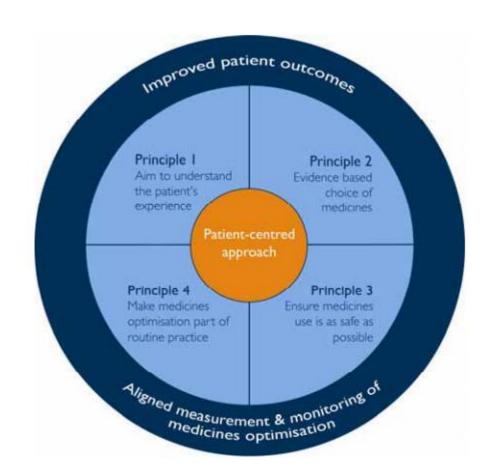




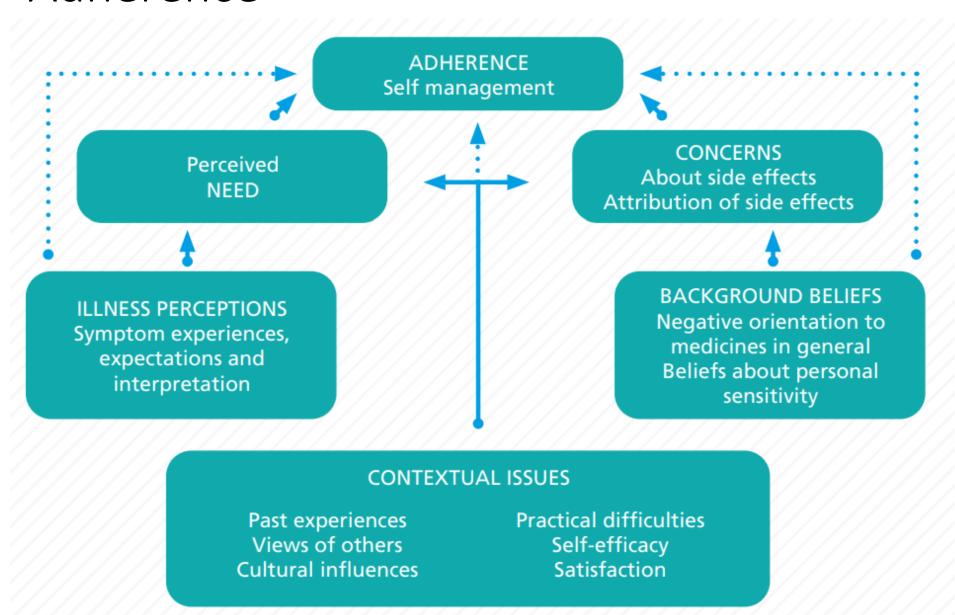
## Medicines optimisation...

- Focuses on patients & outcomes rather than processes & systems (pt journey)
- Opportunity to reduce preventable harm
- About ensuring the right choice of medicine for the right pt at the right time

"a person centred approach to safe & effective meds use, to ensure people obtain the best possible outcomes from their medicines" NICE 2015



#### Adherence



#### Supporting patients

- Supported self management & shared decision making
- Responsible antibiotic/steroid use
- Inhaler technique & adherence
- Non-drug interventions (eye/nose), mindfulness
- Physical activity
- Indoor air quality
- Child health lung charter
- BTS 

  Environment & lung health, Air quality, Sustainability
- Prevent future deaths

Aware, activated patients

Tools and Resources

Person Centred

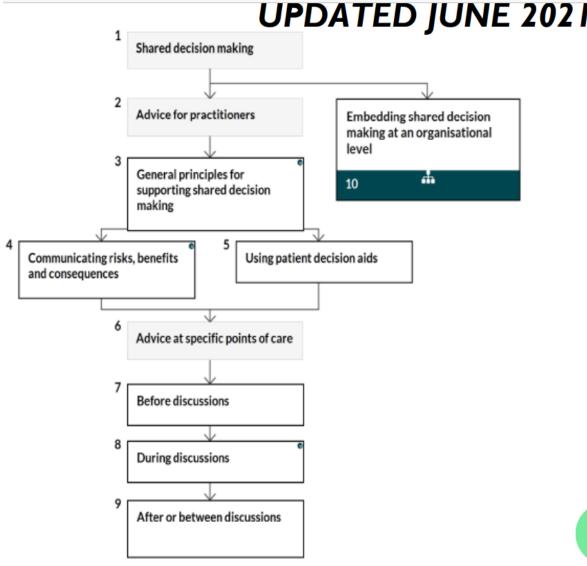
Engaged, prepared staff

Supportive working environment

## NICE SDM guidance NG197

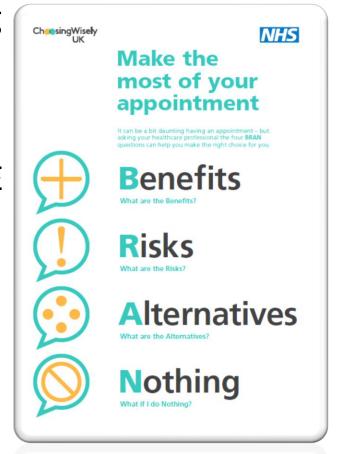
 Organisational level: Make a board member accountable & responsible for the leadership & roll out of SDM across the organisation or system

 Supporting practitioner skills & competences: Organisations should ensure that knowledge, skills & confidence to support SDM are included in the training & CPD of all healthcare staff



## Shared decision making (SDM)

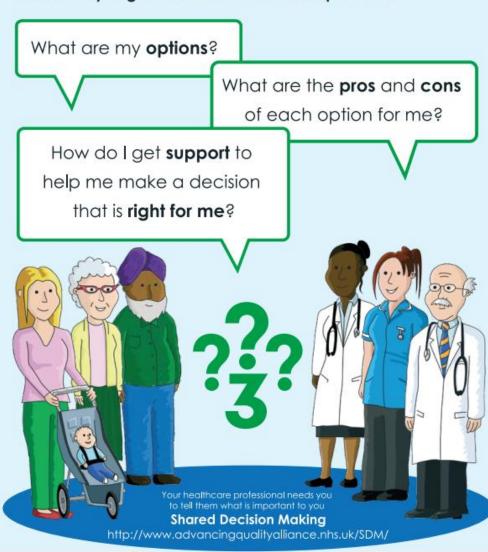
- What, how?
- Provide information, explore ambivalence
- Motivational interviewing
- Informed consent (law)
- Medicines optimisation
- Keele university app/NICE



#### **Ask 3 Questions**



Normally there will be choices to make about your healthcare. Make sure you get answers to these three questions:\*







Alls 1 Questions has been adopted with hird permission from the MAGE programme, supported by the Health Foundation (All 1 Questions is based on DeplementAL, at all These questions that pariests can ask to improve the quality of information physicians give about treatment agrice consequent tall Septer Foundation with A Foundation from the 3 Product

## ICS Green plans & sustainability 'checklist'

https://nclhealthandcare.org.uk//wp-content/uploads/2022/04/North-Central-London-Green-Plan-2022-

2025.pdf

https://drive.google.com/file/d/1BhlkrKjDs3HrQmL4seMOALxKthfJdqWu/view



	Leadership					
1	Nominate an ICS Pharmacy & Medicines Optimisation Sustainability lead pharmacist to develop					
	and co-ordinate key individuals/teams across the ICS.					
2	Develop a multi-sector, multi-year ICS pharmacy & medicines optimisation Green Plan that					
	includes actionable targets.					
3	Include ICS Pharmacy Green Plans as a standing agenda item at all ICS pharmacy & medicines					
	optimisation committees.					
4	Utilise data & analytics to track Green Plan progress and delivery. Benchmark Green Plan					
	metrics across and between systems using available data sources.					
5	Include population health tools and progress with health inequality metrics such as					
	Core20PLUS5 in ICS pharmacy & medicines optimisation Green Plans, to demonstrate action					
	targeting ill-health prevention, a cornerstone of sustainable healthcare.					
6	Recognise/incorporate the sustainability benefits of work streams throughout the NHS Long					
	Term Plan such as digital integration and new models of care across health and social care					
	networks.					
7	Build sustainability and Net Zero targets into all ICS pharmacy commissioning contracts.					
8	Incorporate sustainability and Net Zero objectives into all Pharmacy job descriptions.					
9	ICS leadership should support/promote wider NHS sustainability programmes which in turn will					
	reduce the need for healthcare utilisation and medicines use, such as Active Travel and estate					
	decarbonisation.					
	Respiratory					
1	Support the recommendations held within Greener Practice Guide <u>'</u> How to Reduce the Carbon					
	Footprint of Inhaler Prescribing' (endorsed by the NHS England and NHS Improvement Inhaler					
	Working Group, Asthma UK and the British Lung Foundation)					
2	Develop updated adult and paediatric (where applicable) respiratory care guidance allowing for					
	non-MDI use at each stage of care.					
3	Update drug formularies to reflect new models of care, migrating towards a regional formulary					
•	as per local respiratory networks to standardise choice and availability whilst incorporating					
	carbon footprint information.					
_						
4	Utilise/create a cross-sector patient and staff communications package explicitly on the topic of					
	principles of Greener Respiratory Care.					
5	Support PCN users of the Network Contract Direct Enhanced Service Investment and Impact					
	Fund to deliver on Respiratory Indicators					
<u>c</u>						
6	Support primary care pharmacy teams to support training and delivery of Respiratory elements					
	of the Pharmacy Quality Scheme 21/22					
	Anaesthesia					
1	Desflurane reduction - As per NHS Standard Contract, ensure desflurane use in acute Trusts is					
	no greater than 5% of total volume inhaled anaesthetic use.					
2	Nitrous Oxide mitigation – As per the Greener NHS Nitrous Oxide Toolkit, ensure that users of					
	This day on de midgadon - no per the dicenter with without on de roomity ensure that does of					

## Resources: Greener Practice & L Resp Network

	ICS/LABA	Low Dose	Medium Dose	High Dose #			
Low Carbon	Beclometasone diproprionate (extrafine) with formoterol						
Footprint (<2kg CO2e per	Fostair Nexthaler	100/6 one dose twice a day	100/6 two doses twice a day	200/6 two doses twice a day			
inhaler)	Budesonide with formoterol						
Use where clinically appropriate	Duoresp Spiromax Fobumix Easyhaler	160/4.5 one dose twice a day	320/9 one dose twice a day*	320/9 two doses twice a day			
	Symbicort Turbohaler	200/6 one dose twice a day	400/12 one dose twice a day*	400/12 two dose twice a day			
	Fluticasone proprionate with salmeterol						
	Seretide Accuhaler	100/50 one dose twice a day	250/50 one dose twice a day	500/50 one dose twice a day			
	Fusacomb Easyhaler	n/a	250/50 one dose twice a day	500/50 one dose twice a day			
	AirFluSal Forspiro	n/a	n/a	500/50 one dose twice a day			
	Stalpex DPI (Wice a day)  Fluticasone furoate with vilanterol						
	Relvar Ellipta	n/a	92/22 one dose once a day	184/22 one dose once a day			
High Carbon	Beclometasone diproprionate (extrafine) with formoterol						
Footprint (10-20kgCO2e per	Fostair pMDI	100/6 one dose twice a day	100/6 two doses twice a day	200/6 two doses twice a day			
inhaler) Use if low carbon	Fluticasone proprionate with salmeterol						
footprint alternative not appropriate	Combisal pMDI Seretide Evohaler (Other brands exist)	50/25 two doses twice a day	125/50 two doses twice a day	250/25 two dose twice a day			
Highest Carbon Footprint (>34kgCO2e per inhaler)	Fluticasone proprio	nate with formoterol					
	Flutiform pMDI	50/5 two doses twice a day	125/5 two doses twice a day	250/10 two dose twice a day			
Avoid unless no appropriate	Flutiform K-haler (discontinued 2021)	50/5 two doses twice a day	125/5 two doses twice a day	250/10 two dose twice a day			
alternative or switching is	Budesonide with formoterol						
inappropriate clinically	Symbicort pMDI	100/3 two doses twice a day	200/6 two doses twice a day	n/a			

Carbon Footprint	Inhaled Corticosteroid (ICS) containing inhalers		Non-ICS containing inhalers				
(kgCO2e per inhaler)	ICS	ICS/LABA	ICS/LABA/LAMA	SABA OR SAMA	LABA	LAMA	LAN
Highest (>35 kgCO2e) Avoid unless no appropriate alternative		Flutiform pMDI & K-haler Symbicort pMDI		Ventolin Evohaler			
High (10-20 kgCO2e) Use only if low carbon footprint alternative not clinically appropriate	Clenil Modulite Kelhale Qvar Autohaler Qvar EasiBreathe Soprobec Alvesco Flixotide Evohaler	Fostair pMDI Seretide Evohaler Combisal AirFluSal pMDI Sirdupla Aloflute Sereflo	Trimbow pMDI Trixeo	Airomir AirSal Salamol Airomir Autohaler Salamol Easibreathe Atrovent	Serevent Evohaler Soltel Neovent Vertine Atimos Modulite		Beve
Low (<1kg CO2e) Use where possible	Beclometasone Easyhaler Budesonide Easyhaler Pulmicort Turbohaler Budelin Novolizer Flixotide Accuhaler Asmanex Twisthaler	Fostair Nexthaler  Duoresp Spiromax Fobumix Easyhaler Symbicort Turbohaler  Seretide Accuhaler Fusacomb Easyhaler Aerivio Spiromax AirFluSal Forspiro Stalpex Orbicel Fixkoh Airmaster  Relvar Ellipta	Trelegy Trimbow Nexthaler	Salbutamol Easyhaler Salbulin Novolizer Ventolin Accuhaler Bricanyl	Foradil Formoterol Easyhaler Oxis Onbrez Striverdi Serevent Accuhaler	Spiriva Handihaler Spiriva Respimat Braltus Zonda Tiogiva Acopair NeumoHaler Incruse	Spio Ultil Dua And

## Pharmacy teams





- Holistic drug dealers!
- Prevention and treatment
- Health & wellbeing practitioners
- What's bigger picture & what can we do?
- Understand carbon footprint
- Start a Mexican wave
- Set up/join community of practice
- Advocacy & allyship

## Inclusive pharmacy practice

CPCS, Tobacco dependency, case finding closing the loop. Holistic care

- Fundamentals of care inc non-pharmacological
- Inhalers technique & adherence important

Debate Pack

Carl Baker

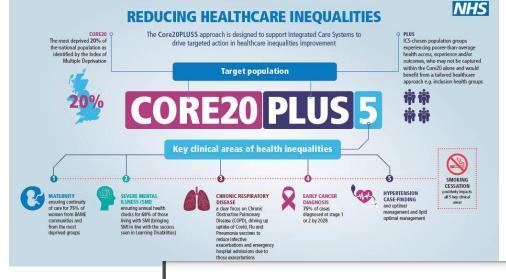
- Co-morbidities & social prescribing (de-prescribing)
- Consider interactions, side effects inc add on therapies e.g. long term macrolide, mucolytics

Be aware of an increased risk of side effects (including pneumonia) in people who take ICS.

Document in clinical records the reason for continuing ICS treatment

Worsening breathlessness may require referral/palliation







#### Good for you, good for us, good for everybody

A plan to reduce overprescribing to make patient care better and safer, support the NHS, and reduce carbon emissions

Published 22 September 2021

#### Joint National Plan for **Inclusive Pharmacy Practice in England**

10 March 2021

Delivering high quality respiratory care &

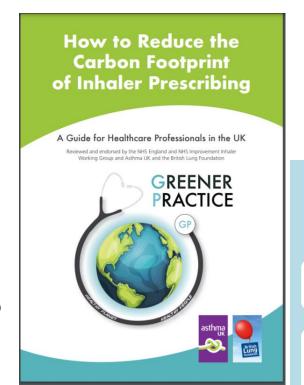
Carbon reduction

Implications - your setting

Modelling & measuring, QI, LEAN

- Roles & responsibilities
- E+T, resources, carbon calculators
- Who/what's in place (gap analysis)?
- How will it work?
- What needs to change/support?





#### **Quick refence low carbon** high quality asthma care



#### Education

in every section of the document there is an education project. This is because for change to happen we need team involvement and improved awareness.

#### Diagnosis

- 1. Improving the diagnosis of suspected asthma
- 2. Patients on SABA therapy only

#### Device

- 1. Quick reference guide to lower carbon alternatives
- 2. Offering patients a low-carbon
- 3. Targeting highest the highest carbon footprint preventers
- 4. Fostair pMDI to DPI (Nexthaler)
- 5. Ventolin Evohaler pMDI to Salamol or Airomir

#### Disease Control

- 1.SABA over-reliance & Prescription requests 2. SABA over-reliance & routine medication review
- 3. SABA over-reliance & Asthma reviews
- 4. Using the prescription label & SABA over-reliance
- High risk patients and optimising care
- 6. Increasing the **default prescribing interval**
- 7. Improving asthma review and patient self-
- 8: Wider determinants and non-pharmacological

#### Disposal

- 1. Empty inhalers
- 2. Inhaler recycling and returning
- 3. Disposal of inhalers
- 4. Set up an inhaler collection point in your surgery

#### Resource pack

There are a number of resources for the above projects including patient facing information, videos, search templates and charts to fill.

# Tips for high quality sustainable asthma care

- Identify & address SABA overuse case finding, care transitions
- Regular ICS use r/v (non)adherence optimise inc inh technique
- MART therapy/add ons
- Review of oral steroid use/exacerbations, onward specialist referral
- Device/therapy change where appropriate (shared discussion) follow up
- Personalised asthma action plans, self management
- Consistency of device type, combo inh, spacers
- Strategies to reduce repeat Rx (refill/reuse, fewer puffs higher strength)& how long inh lasts
- Supportive resources
- Disposal/recycling not in domestic waste





### Crisis (opportunity!) Everyone's business

- Quality care holistic & adherence, disease control
- Inhalers Not rote MDI switches but consider DPIs & clinical appropriateness
- Understand (audit) local area practice, QI
- Formulary alignment
- Raise awareness, connect & collaborate
- Staff/Patient education + review
- Disposal use, care & how long inhaler lasts
- Pharmacy sustainability strategy?
- What's happening locally?



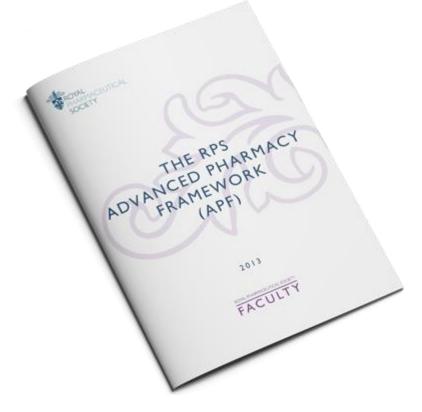
## In your current role... Green inhalers

- The scale of the problem & carbon impact? Modelling?
- Levers DMS CQUIN, PCN DES, SMR etc
- Implications of device changes? Who & how? SDM
- Consider information provision patients in clinics/hosp before appt/ discharge, community, resources?
- Education & awareness inc smoking, return/recycle
- LEANer processes & 'waste'
- Top down & bottom up leadership & champions
- Stakeholder collaboration & engagement



#### Cont.

- RPS advanced/consultant practice APF
- Research domain audit/evaluation



- Circular economy principles i.e. how we manage resources
- How we make & use products
- What we do with the materials afterwards

## What else can you do?

- Find your green pals
- Join a sustainability network
- Become a green champion
- Carbon literacy training & other
- Work out your carbon footprint
- Listen and 'take people on the journey' with you

# Learn from history What's worked well elsewhere? Plan forwards Take risks Be a little experimental

5 methods for leading in unpredictability

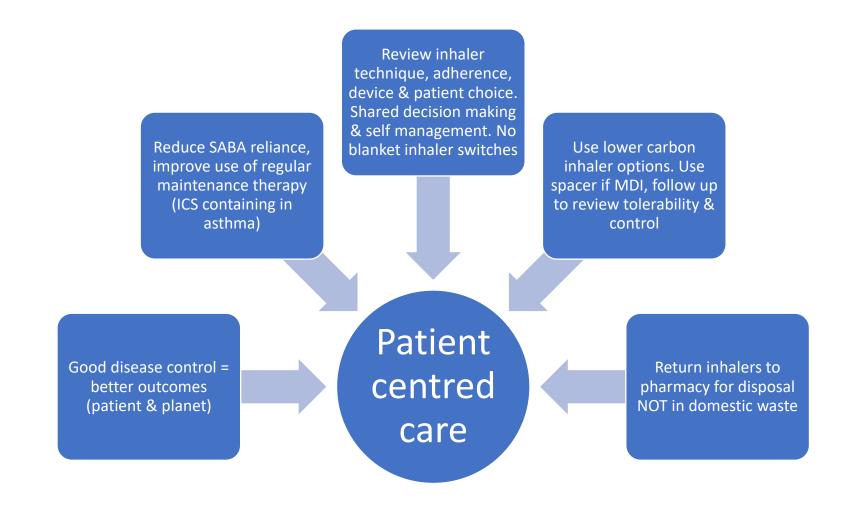
## Get involved – we are a sum of our parts...

- If no alternative use lower vol HFA134 MDIs in preference
- Cars & travel better options, less journeys
- Avoid 'idling'
- Healthier living and being activity & diet
- More 'plant forward' diets
- Reuse bottles etc less plastic
- Conserve green spaces
- Divest from fossil fuels
- Banking





## Sustainability respiratory messages



#### Considerations & horizon

- Awaiting joint national asthma guideline NICE/BTS/SIGN
- London resp network inhaler formulary?
- Lower HFA propellant MDIs/DEFRA F gas review
- Different pathways/virtual options
- Commissioning landscape change
- The triple bottom line (£, social, environmental)
- IPC challenges wearing gloves, single use plastic
- https://www.tandfonline.com/doi/full/10.1080/17425247.2023.2179984



## Summary

- Make it easy to do the right things (right)
- No blanket inhaler switches



- Efficiencies & value → not just cost improvement/box ticking
- Whole pt & system approach, care closer to home
- Make every contact count
   – person centred
- Shared, informed decisions, deprescribing where appropriate
- What do YOU need to do this/make change/Green plan targets?

## Where are you now?



## Acknowledgements

- PrescQIPP
- Sarah Preece OHID

# Thank you!

#### Next steps:

- Ensure that you have joined the pharmacy network!
- Share your thoughts, questions, learning and experience.
- Spread the word!
- Join us at our next event.

**INSPIRE** 





